

## Curriculum Vitae

**Name:** Mandy J. (Bell) Schmella

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## Education and Training

### **Undergraduate**

|           |  |                                   |
|-----------|--|-----------------------------------|
| 2001-2005 | University of Pittsburgh<br>Pittsburgh, PA | BSN<br>Nursing<br>Summa cum Laude |
|-----------|--|-----------------------------------|

### **Graduate**

|           |  |   |
|-----------|--|---|
| 2007-2012 | University of Pittsburgh<br>Pittsburgh, PA | PhD<br>Nursing with Minor in<br>Healthcare Genetics |
|-----------|--|---|

|      |   |             |
|------|---|-------------|
| 2009 | Summer Genetics Institute<br>National Institute of Nursing<br>Research; Georgetown University<br>Bethesda, MD | Certificate |
|------|---|-------------|

### **Postgraduate**

|           |  |  |
|-----------|--|--|
| 2012-2015 | University of Pittsburgh<br>Magee-Womens Research Institute<br>School of Nursing<br>Pittsburgh, PA | Postdoctoral Scholar<br>F32NR014622 (NINR)<br>T32NR009759 (NINR) |
|-----------|--|--|

## Appointments and Positions

### **Academic**

|              |  |                                     |
|--------------|--|-------------------------------------|
| 2015-present | University of Pittsburgh<br>School of Nursing<br>Health Promotion and Development<br>Pittsburgh, PA  | Assistant Professor                 |
| 2013-2015    | Magee-Womens Research Institute<br>University of Pittsburgh<br>School of Medicine<br>Obstetrics, Gynecology, & Reproductive Sciences<br>Pittsburgh, PA | Postdoctoral Scholar<br>F32NR014622 |

|                     |  |   |
|---------------------|--|---|
| 2012-2013           | University of Pittsburgh<br>School of Nursing<br>Pittsburgh, PA  | Postdoctoral Scholar<br>T32NR009759               |
| 2007-2012           | University of Pittsburgh<br>School of Nursing<br>Dr. Yvette Conley's Molecular Genetics Laboratory<br>Pittsburgh, PA | Graduate Student Researcher                       |
| 2007-2012           | University of Pittsburgh<br>School of Nursing<br>Pittsburgh, PA  | Predoctoral Scholar<br>T32NR009759<br>F31NR011379 |
| <b>Non-Academic</b> |  |   |
| 2005-2007           | Penn State Milton S. Hershey<br>Medical Center<br>Hershey, PA  | Staff Nurse<br>Women's Health Unit                |
| 5/2004-8/2004       | Lewistown Hospital<br>Lewistown, PA  | Nurse Extern<br>Emergency Department              |
| 5/2003-8/2003       | Lewistown Hospital<br>Lewistown, PA  | Nurse Extern<br>Medical-Surgical; Pediatrics      |
| 5/2002-8/2002       | Ohesson Manor<br>Lewistown, PA   | Certified Nurse Aide<br>Alzheimer's Unit          |

**Licensure and Certification**

Initial License Date: 7/27/2005      RN563961      Pennsylvania  
 Expiration Date: 10/31/2018

3/6/2017      American Heart Association      BLS Provider (CPR & AED)

**Membership in Professional and Scientific Societies**

|                      |   |
|----------------------|---|
| 2012-present         | The American Society for Human Genetics   |
| 2008-present<br>2015 | Association of Women's Health, Obstetrics, and Neonatal Nurses<br>Pennsylvania State Conference Planning Committee Member |
| 2008-present         | International Society of Nurses in Genetics   |

|                    |   |
|--------------------|---|
| 2018               | ISONG Congress Planning Committee Member                      |
| 2017               | ISONG Congress Planning Committee Member                      |
| 2017               | ISONG Congress Research Abstract Reviewer/ Congress Moderator |
| 2004-present       | Sigma Theta Tau International Honor Society of Nursing        |
| 2011-2013          | Co-chair of Scholar's Night (Eta Chapter)                     |
| 2014, 2017-present | Research Award Grant Review Committee Member                  |
| 2012-present       | The Society for Gynecologic Investigation                     |

### Honors

|           |  |
|-----------|--|
| 2014      | International Society for the Study of Hypertension in Pregnancy Travel Award (XIX World Congress in New Orleans, LA)                                      |
| 2013-2015 | Postdoctoral Scholar, Ruth F. Kirschstein National Research Service Award (F32NR014622)  |
| 2012-2013 | Postdoctoral Scholar, "Targeted Research and Academic Training of Nurses in Genomics" (T32NR009759)  |
| 2009-2012 | Predocctoral Scholar, Ruth F. Kirschstein National Research Service Award (F31NR011379)  |
| 2007-2009 | Predocctoral Scholar, "Targeted Research and Academic Training of Nurses in Genomics" (T32NR009759)  |
| 2005      | University of Pittsburgh School of Nursing Keeper of the Light (given to the graduating student nurse with the highest academic standing in his/her class) |
| 2005      | Summa cum Laude, University of Pittsburgh  |
| 2003      | Ann M. J. Reed Memorial Scholarship  |

### Publications

#### **Refereed Articles** \* = Data Based

1. **Bell, M. J.** (2010). A historical overview of preeclampsia-eclampsia. *Journal of Obstetric, Gynecologic, and Neonatal Nursing*, 39(5), 510-518. doi: 10.1111/j.1552-6909.2010.01172.x. PMID: PMC2951301.
2. Baumgartel K., Zelazny, J., Timcheck, T., Snyder, C., **Bell, M.**, & Conley, Y. P. (2011). Molecular research designs. *Annual Review of Nursing Research*, 29, 1-26. PMID: PMC3422781. (\*note: all first authors)
3. **Bell, M. J.**, & Conley, Y. P. (2013). A systematic review of endoglin gene expression in preeclampsia. *Biological Research for Nursing*, 15(2), 129-136. Epub ahead of print on September 15, 2011. doi: 10.1177/1099800411420133. PMID: PMC3746550.
4. **\*Bell, M. J.**, Roberts, J. M., Founds, S. A., Jeyabalan, A., Terhorst, L., & Conley, Y. P. (2013). Variation in endoglin pathway genes is associated with preeclampsia: A case-control candidate gene association study. *BMC Pregnancy & Childbirth*, 13, 82. doi: 10.1186/1471-2393-13-82. PMID: PMC3651360.
5. **\*Bell, M. J.**, Terhorst, L., & Bender, C. M. (2013). Psychometric analysis of the Patient Assessment of Own Functioning Inventory in women with breast cancer. *Journal of Nursing Measurement*, 21(2), 320-334. PMID: PMC4011069.
6. Roberts, J. M., & **Bell, M. J.** (2013). If we know so much about preeclampsia, why

- haven't we cured the disease? *Journal of Reproductive Immunology*, 99(1-2), 1-9. doi: 10.1016/j.jri.2013.05.003. PMID: PMC4066309.
7. \***Schmella, M. J.**, Ferrell, R. E., Gallaher, M. J., Lykins, D. R., Althouse, A. D., Roberts, J. M., & Hubel, C. A. (2015). The -93T/G *LPL* promoter polymorphism is associated with lower third-trimester plasma triglycerides in pregnant African American women. *Biological Research for Nursing*, 14(4), 429-437. doi: 10.1177/1099800414561475. PMID: PMC4474765.
  8. \***Schmella, M. J.**, Clifton, R. G., Althouse, A. D., & Roberts, J. M. (2015). Uric acid determination in gestational hypertension: Is it as effective a delineator of risk as proteinuria in high risk women? *Reproductive Sciences*, 22(10), 1212-1219. doi: 10.1177/1933719115572477.
  9. Dorman, J. S., **Schmella, M. J.**, & Wesmiller, S. W. (2017). Primer in genetics and genomics, article 1: DNA, genes, and chromosomes. *Biologic Research for Nursing*, 19(1), 7-17. doi: 10.1177/1099800416678321.
  10. Anderson, C. M., & **Schmella, M. J.** (2017). CE: Preeclampsia: Current approaches to nursing management. *The American Journal of Nursing*, 117(11), 30-38. doi: 10.1097/01.NAJ.0000526722.26893.b5. (\*note: both authors contributed equally to article)
  11. Demirci, J., \***Schmella, M. J.**, Glasser, M., Bodnar, L., & Himes, K. (2018). Delayed lactogenesis II and potential utility of antenatal milk expression in women developing late-onset preeclampsia: A case series. *BMC Pregnancy and Childbirth*, 18(1): 68. doi: 10.1186/s12884-018-1693-5. PMID: PMC5855986. (\*note: Demirci and Schmella contributed equally to article).
  12. \***Schmella, M. J.**, Roberts, J. M., Conley, Y. P., Ren, D., Storvold, G. L., Ingles, S. A., Wilson, M. L., Staff A. C., & Hubel, C. A. (2018). Endoglin pathway genetic variation in preeclampsia: A validation study in Norwegian and Latina cohorts. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health*, 12: 144-149. doi: 10.1016/j.preghy.2017.10.005.

### Published Abstracts

1. \***Schmella, M. J.**, Roberts, J. M., Althouse, A. D., & Hubel, C. A. (2015). Evaluation of the association between maternal endoglin genetic variation and circulating soluble endoglin concentrations in women with and without preeclampsia. [Abstract]. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health [Abstracts of the XIXth World Congress for the Study of Hypertension in Pregnancy Preeclampsia/Hypertension- Future Risks and Novel Therapies]*, 5(1), 14. doi: 10.1016/j.preghy.2014.10.033.

### Research

#### ACTIVE:

#### **Principal Investigator**

Eunice Kennedy Shriver National Institute of Child Health & Human Development (NIH-NICHD)

R21HD092770

*DNA Methyloomic Profiling of Preeclampsia Across Pregnancy*

September 1, 2017-August 31, 2019/ 25% effort

\$275,000 (total direct costs)

**COMPLETED:** The completed grants below were supplements to my NIH training grants listed under the section titled “Educational or Training Grants”

**Principal Investigator**

Sigma Theta Tau International Honor Society of Nursing, Eta Chapter  
*Genomics of Endoglin Pathway in Preeclampsia (GEPP)*  
2010-2012  
\$1,250

International Society of Nurses in Genetics  
*Genomics of Endoglin Pathway in Preeclampsia (GEPP)*  
2011  
\$1,500

Sigma Theta Tau International Honor Society of Nursing, Eta Chapter  
*Mechanisms Modulating the Association between the Endoglin Pathway and Preeclampsia*  
2013-2014 (one year, no cost extension granted)  
\$2,500

Preeclampsia Foundation Vision Grant  
*Mechanisms Modulating the Association between the Endoglin Pathway and Preeclampsia*  
January 2014-December 2014 (one year, no cost extension granted)  
\$25,000

CRE Pilot/Feasibility Study Program  
*DNA Methyloomic Profiling Before and After Onset of Clinically Overt, Preterm Preeclampsia*  
April 1, 2017-March 31, 2018/ 20% contributed effort  
\$15,000

**Other Scholarly Activities**

**Educational or Training Grants**

National Institute of Nursing Research (T32NR009759)  
*Targeted Research and Academic Training of Nurses in Genomics*  
Predoctoral Scholar  
2007-2009

National Institute of Nursing Research (F31NR011379)  
*Genomics of Endoglin Pathway in Preeclampsia (GEPP)*  
Predoctoral Scholar  
2009-2012

National Institute of Nursing Research (T32NR009759)  
*Targeted Research and Academic Training of Nurses in Genomics*  
Postdoctoral Scholar

2012-2013

National Institute of Nursing Research (F32NR014622)

*Mechanisms Modulating the Association between the ENG Pathway and Preeclampsia*

2013-2015

Postdoctoral Scholar

### Grant Reviewer

2014, 2017-present Sigma Theta Tau International Honor Society of Nursing, Eta Chapter

### Manuscript Reviewer

2013, 2017, 2018 Biologic Research for Nursing

2014 BMC Pregnancy & Childbirth

2013 Hypertension

2015, 2018 Hypertension in Pregnancy

2015 Journal of Women's Health

2014 Placenta

### Unpublished Presentations

(International; National; Regional; Local)

#### International

1. **Bell, M.**, Deslouches, S., Roberts, J., & Conley, Y. (2011, October). *Small-volume umbilical cord serum aliquots: A viable option for DNA extraction*. Poster presentation at the 24<sup>th</sup> Annual International Society of Nurses in Genetics Conference, Montreal, Canada.
2. **Bell, M. J.**, Roberts, J. M., Founds, S. A., Jeyabalan, A., Terhorst, L., & Conley, Y. P. (2012, November). *Preeclampsia is associated with variation in endoglin pathway genes*. Poster presentation at the American Society of Human Genetics Annual Meeting, San Francisco, CA.
3. **Bell, M. J.**, Roberts, J. M., Founds, S. A., Jeyabalan, A., Hubel, C. A., Terhorst, L., & Conley, Y. P. (2013, March). *Variation in endoglin pathway genes is associated with preeclampsia*. Poster presentation at the Society for Gynecologic Investigation 60<sup>th</sup> Annual Meeting, Orlando, FL.
4. **Bell, M. J.** (2013, June). *The endoglin pathway in preeclampsia: Genomics and beyond*. Podium presentation at Tox Tox 13, Mill Valley, CA. (Invited)
5. Lucero, J., Wilhelmsen, K., Tran, A., **Bell, M.**, Fisher, S., & Hellman, J. (2014, May). *IL-8 production in lung endothelial cells after exposure to preeclamptic plasma*. Poster presentation at the 2014 Society for Obstetric Anesthesia and Perinatology Annual Meeting, Toronto, Canada.
6. **Schmella, M. J.**, Roberts, J. M., Althouse, A. D., & Hubel, C. A. (2014, October). *Evaluation of the association between maternal endoglin genetic variation and circulating soluble endoglin concentrations in women with and without preeclampsia*. Podium presentation at the International Society for the Study of Hypertension in Pregnancy (ISSHP) XIX World Congress, New Orleans, LA.
7. **Schmella, M. J.**, Roberts, J. M., Conley, Y. P., Ren, D., Stovold, G., Ingles, S., Wilson, M., Staff, A. C., & Hubel, C. A. (2016, August). *Endoglin pathway genetic variation in preeclampsia: A replication study in Norwegian and Latina cohorts*. Podium

- presentation at the International Society of Nurses in Genetics World Congress, Dublin, Ireland.
8. Wesmiller, S., **Schmella, M.**, & Dorman, J. (2016, August). *Using the scholarship of teaching and learning approach to re-design a human genetics and genomics course for undergraduate nursing students*. Poster presentation at the International Society of Nurses in Genetics World Congress, Dublin, Ireland.
  9. Rietze, A., Conley, Y., Hubel, C., Jeyabalan, A., Roberts, J., & **Schmella, M.** (2017, November). *Blood-based DNA methylation levels of endoglin pathway candidate genes: Do they differ in women with and without clinically-overt preeclampsia?* Oral presentation at the International Society of Nurses in Genetics World Congress, Reston, Virginia.

### National

1. **Bell, M.**, & Conley, Y. (2009, July). *Genomics of endoglin pathway in preeclampsia*. Poster presentation at the National Institute of Nursing Research Summer Genetics Institute Graduation Ceremony, Bethesda, MD.
2. **Bell, M.**, & Conley, Y. (2009, October). *Genomics of endoglin pathway in preeclampsia*. Poster presentation at the Council for the Advancement of Nursing Science 2009 Special Topics Conference: Technology, Genetics, and Beyond: Research Methodologies of the Future, Washington, DC.
3. **Bell, M.**, & Conley, Y. (2010, September). *Genomics of endoglin pathway in preeclampsia*. Poster presentation at the National Institute of Nursing Research 25<sup>th</sup> Anniversary Scientific Symposium: Bringing Science to Life, Washington, DC.

### Local

1. **Bell, M.**, & Conley, Y. (2009, February). *Genomics of endoglin pathway in preeclampsia*. Poster presentation at the 10<sup>th</sup> Annual Research and Clinical Poster Session of Eta Chapter of Sigma Theta Tau International, Pittsburgh, PA.
2. **Bell, M.**, & Conley, Y. (2009, June). *Genomics of endoglin pathway in preeclampsia*. Poster presentation at the 1st Annual PhD Research Poster Event: The Road Less Traveled: Becoming a Nurse Researcher, University of Pittsburgh, Pittsburgh, PA.
3. **Bell, M.**, & Conley, Y. (2010, June). *Genomics of endoglin pathway in preeclampsia*. Poster presentation at the 2<sup>nd</sup> Annual PhD Research Poster Event: Developing a Research Career: An Opportunity Awaits You, University of Pittsburgh, Pittsburgh, PA.
4. **Schmella, M. J.** (2014, March). *Anti-angiogenic factors and preeclampsia: Examining endoglin's role in preeclampsia pathophysiology*. Podium presentation at the Research Seminar in Reproductive, Perinatal, and Pediatric Epidemiology, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA. (Invited)

### Other Presentations

1. Dorman J., **Schmella, M.**, & Wesmiller, S. (2016, November). *Precision medicine: Incorporation of genetics and genomics into nursing practice*. University of Pittsburgh School of Nursing Continuing Education Activity (3 contact hours awarded) presented at the University of Pittsburgh, Pittsburgh, PA. [Note: The CEU activity is now available as an online learning activity through the University of Pittsburgh School of Nursing].

**Teaching****Primary Teacher**

| <b>Term / Years</b> | <b>Course Number &amp; Title</b>                               | <b>No. of Students</b> | <b>Level</b>                          | <b>Didactic or Clinical</b>          |
|---------------------|--|------------------------|---------------------------------------|--------------------------------------|
| Spring 2016         | NUR1680: Introduction to Genetics and Molecular Therapeutics   | 82                     | Sophomores & Seniors                  | Didactic (co-taught with Jan Dorman) |
| Fall 2016           | NUR1680: Introduction to Genetics and Molecular Therapeutics   | 52                     | Sophomores & Seniors                  | Didactic                             |
| Spring 2017         | NUR1680: Introduction to Genetics and Molecular Therapeutics   | 45                     | Sophomores & Seniors                  | Didactic                             |
| Fall 2017           | NUR1061 (Independent Study): Dissemination of Research Results | 1                      | Senior                                | Independent Study                    |
| Spring 2018         | NUR1680: Introduction to Genetics and Molecular Therapeutics   | 89                     | Sophomores and Seniors (other majors) | Didactic                             |

**Lecturer / Guest Lecturer**

| <b>Term/ Years</b> | <b>Course Number &amp; Title</b>                             | <b>Level</b>  | <b>Topic of Lecture</b>   |
|--------------------|--|---------------|---------------------------|
| Spring 2012        | PT2045: Survey of Human Disease 2                            | Graduate      | Genetics in Human Disease |
| Summer 2013        | University of Pittsburgh Health Careers Scholars Academy     | High School   | Genetics in Human Disease |
| Fall 2017          | NUR1680: Introduction to Genetics and Molecular Therapeutics | Undergraduate | Genetic Testing           |
| Fall 2017          | NUR1680: Introduction to Genetics and Molecular Therapeutics | Undergraduate | Quantitative Genetics     |

**Mentoring****BSN-Honors Theses**

Allison Rietze, “*Blood-based DNA methylation levels of endoglin pathway candidate genes: Do they differ in women with and without clinically-overt preeclampsia?*” Chair, 2015-present. [Ms. Rietze successfully defend her thesis on April 4, 2018].

**Undergraduate Supervision/Mentoring**

University of Pittsburgh School of Nursing Undergraduate Research Mentoring Program (URMP)

Emily Williams, faculty mentor, 2015

Jaqueline Lee, faculty mentor, 2016-2018



### **Graduate/Post-Graduate Supervision/Mentoring**

Qianqian Liang, MS: PhD student in Human Genetics (University of Pittsburgh Graduate School of Public Health), 2017-present

Vanessa Assibey-Mensah, MPH, PhD: American Heart Association Postdoctoral Fellow (University of Pittsburgh School of Medicine; Magee-Womens Research Institute), 2017-present

### **Service**

#### **School Committees**

BSN Council

member, 2015-present

Faculty Staff and Welfare Committee

member, 2016-present

Chair, 2017-6/2018

#### **Other Professional Activities**

##### **Curriculum Development**

1. 2016 Curriculum Development (genetics component of a nursing prep Program): Narabayev University in Kazakshstan
2. 2017 Curriculum Development (online version of NUR1680: Introduction to Genetics and Molecular Therapeutics for the Online RN-Options program at the University of Pittsburgh)

##### **Other**

1. 2015 Invited speaker for Dr. Mary Korytkowski's "Introduction to Being a Physician" course for 1<sup>st</sup> year University of Pittsburgh Medical students (asked to discuss management of my Type 1 diabetes)
2. 2015 Research Participant: DIADIC study (Diabetes Across Development in Couples)
3. 2016 Participation in the *Under Pressure: The Hidden Story of Pregnancy and Preeclampsia* documentary by Kristine Weatherston from Temple University
4. 2017 Team Leader for 5<sup>th</sup> Annual Pittsburgh Promise Walk for Preeclampsia (Magee-Womens Research Institute Investigators and Friends)
5. 2017 Alumni Remarks and Passing of the Keeper of the Light at the University of Pittsburgh's School of Nursing Spring Pinning Ceremony
6. 2018 Alumni Remarks and Passing of the Keeper of the Light at the University of Pittsburgh's School of Nursing Spring Pinning Ceremony
7. 2018 Faculty Marshall for the School of Nursing at the University of Pittsburgh Spring Commencement Ceremony